



### OPA4251UA/2K5 Information



For Reference Only

Part Number OPA4251UA/2K5

Manufacturer Texas Instruments

Category Integrated Circuits (ICs)

Linear - Amplifiers - Instrumentation, OP Amps,

**Buffer Amps** 

**Description** IC OPAMP GP 35KHZ RRO 14SOIC **Package** 14-SOIC (0.154", 3.90mm Width)

For the pricing/inventory/lead time, please contact

us

Website: https://www.heisener.com E-mail: salesdept@heisener.com



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## **OPA4251UA/2K5 Specifications**

| Manufacturer Part Number         OPA4251UA/2K5           Manufacturer         Texas Instruments           Category         Integrated Circuits (ICs)           Linear - Amplifiers - Instrumentation, OP Amps, Buffer Amps           Package         14-SOIC (0.154", 3.90mm Width)           Series         -           Amplifier Type         General Purpose           Number of Circuits         4           Output Type         Rail-to-Rail           Slew Rate         0.01 V/μs           Gain Bandwidth Product         35kHz           -3db Bandwidth         -           Current - Input Bias         4nA           Voltage - Input Offset         50μV           Current - Supply         27μA           Current - Output / Channel         50mA           Voltage - Supply, Single/Dual (±)         2.7 V ~ 36 V, ±1.35 V ~ 18 V           Operating Temperature         -40°C ~ 85°C           Mounting Type         Surface Mount           Package / Case         14-SOIC (0.154", 3.90mm Width)           Supplier Device Package         14-SOIC |                                   |   |
|--|-----------------------------------|---|
| Category         Integrated Circuits (ICs)           Linear - Amplifiers - Instrumentation, OP Amps, Buffer Amps           Package         14-SOIC (0.154", 3.90mm Width)           Series         -           Amplifier Type         General Purpose           Number of Circuits         4           Output Type         Rail-to-Rail           Slew Rate         0.01 V/μs           Gain Bandwidth Product         35kHz           -3db Bandwidth         -           Current - Input Bias         4nA           Voltage - Input Offset         50μV           Current - Supply         27μA           Current - Output / Channel         50mA           Voltage - Supply, Single/Dual (±)         2.7 V ~ 36 V, ±1.35 V ~ 18 V           Operating Temperature         -40°C ~ 85°C           Mounting Type         Surface Mount           Package / Case         14-SOIC (0.154", 3.90mm Width)           Supplier Device Package         14-SOIC   | Manufacturer Part Number          | OPA4251UA/2K5   |
| Linear - Amplifiers - Instrumentation, OP Amps, Buffer Amps         Package       14-SOIC (0.154", 3.90mm Width)         Series       -         Amplifier Type       General Purpose         Number of Circuits       4         Output Type       Rail-to-Rail         Slew Rate       0.01 V/μs         Gain Bandwidth Product       35kHz         -3db Bandwidth       -         Current - Input Bias       4nA         Voltage - Input Offset       50μV         Current - Supply       27μA         Current - Output / Channel       50mA         Voltage - Supply, Single/Dual (±)       2.7 V ~ 36 V, ±1.35 V ~ 18 V         Operating Temperature       -40°C ~ 85°C         Mounting Type       Surface Mount         Package / Case       14-SOIC (0.154", 3.90mm Width)         Supplier Device Package       14-SOIC  | Manufacturer                      | Texas Instruments   |
| Package         14-SOIC (0.154", 3.90mm Width)           Series         -           Amplifier Type         General Purpose           Number of Circuits         4           Output Type         Rail-to-Rail           Slew Rate         0.01 V/μs           Gain Bandwidth Product         35kHz           -3db Bandwidth         -           Current - Input Bias         4nA           Voltage - Input Offset         50μV           Current - Supply         27μA           Current - Output / Channel         50mA           Voltage - Supply, Single/Dual (±)         2.7 V ~ 36 V, ±1.35 V ~ 18 V           Operating Temperature         -40°C ~ 85°C           Mounting Type         Surface Mount           Package / Case         14-SOIC (0.154", 3.90mm Width)           Supplier Device Package         14-SOIC  | Category                          | Integrated Circuits (ICs)                                   |
| Series         -           Amplifier Type         General Purpose           Number of Circuits         4           Output Type         Rail-to-Rail           Slew Rate         0.01 V/μs           Gain Bandwidth Product         35kHz           -3db Bandwidth         -           Current - Input Bias         4nA           Voltage - Input Offset         50μV           Current - Supply         27μA           Current - Output / Channel         50mA           Voltage - Supply, Single/Dual (±)         2.7 V ~ 36 V, ±1.35 V ~ 18 V           Operating Temperature         -40°C ~ 85°C           Mounting Type         Surface Mount           Package / Case         14-SOIC (0.154", 3.90mm Width)           Supplier Device Package         14-SOIC   |                                   | Linear - Amplifiers - Instrumentation, OP Amps, Buffer Amps |
| Amplifier Type General Purpose Number of Circuits 4  Output Type Rail-to-Rail Slew Rate 0.01 V/ $\mu$ s  Gain Bandwidth Product 35kHz  -3db Bandwidth -  Current - Input Bias 4nA  Voltage - Input Offset 50 $\mu$ V  Current - Supply 27 $\mu$ A  Current - Output / Channel 50mA  Voltage - Supply, Single/Dual ( $\pm$ ) 2.7 V ~ 36 V, $\pm$ 1.35 V ~ 18 V  Operating Temperature -40°C ~ 85°C  Mounting Type Surface Mount  Package / Case 14-SOIC (0.154", 3.90mm Width)  Supplier Device Package 14-SOIC   | Package                           | 14-SOIC (0.154", 3.90mm Width)                              |
| Number of Circuits 4 Output Type Rail-to-Rail Slew Rate 0.01 V/ $\mu$ s Gain Bandwidth Product 35kHz -3db Bandwidth - Current - Input Bias 4nA Voltage - Input Offset 50 $\mu$ V Current - Supply 27 $\mu$ A Current - Output / Channel 50mA Voltage - Supply, Single/Dual (±) 2.7 V ~ 36 V, ±1.35 V ~ 18 V Operating Temperature -40°C ~ 85°C Mounting Type Surface Mount Package / Case 14-SOIC (0.154", 3.90mm Width) Supplier Device Package 14-SOIC   | Series                            | -   |
| Output Type Rail-to-Rail  Slew Rate 0.01 V/ $\mu$ s  Gain Bandwidth Product 35kHz  -3db Bandwidth  - Current - Input Bias 4nA  Voltage - Input Offset 50 $\mu$ V  Current - Supply 27 $\mu$ A  Current - Output / Channel 50mA  Voltage - Supply, Single/Dual ( $\pm$ ) 2.7 V ~ 36 V, $\pm$ 1.35 V ~ 18 V  Operating Temperature -40°C ~ 85°C  Mounting Type Surface Mount  Package / Case 14-SOIC (0.154", 3.90mm Width)  Supplier Device Package 14-SOIC   | Amplifier Type                    | General Purpose   |
| Slew Rate 0.01 V/ $\mu$ s 35kHz -3db Bandwidth Product 35kHz -  -3db Bandwidth -  Current - Input Bias 4nA   Voltage - Input Offset 50 $\mu$ V    Current - Supply 27 $\mu$ A    Current - Output / Channel 50mA    Voltage - Supply, Single/Dual ( $\pm$ ) 2.7 V ~ 36 V, $\pm$ 1.35 V ~ 18 V    Operating Temperature -40°C ~ 85°C    Mounting Type Surface Mount    Package / Case 14-SOIC (0.154", 3.90mm Width)    Supplier Device Package 14-SOIC   | Number of Circuits                | 4   |
| $ \begin{array}{llllllllllllllllllllllllllllllllllll$  | Output Type                       | Rail-to-Rail  |
| $-3 db \ Bandwidth \\ -Current - Input \ Bias \\ Voltage - Input \ Offset \\ Supply \\ Current - Supply \\ Current - Output / Channel \\ Voltage - Supply, Single/Dual (\pm)  2.7 \ V \sim 36 \ V, \pm 1.35 \ V \sim 18 \ V \\ Operating \ Temperature \\ Mounting \ Type \\ Surface \ Mount \\ Package / Case \\ 14-SOIC (0.154", 3.90mm \ Width) \\ Supplier \ Device \ Package \\ 14-SOIC \\ $  | Slew Rate                         | $0.01 \text{ V/}\mu\text{s}$                                |
| Current - Input Bias $4nA$ Voltage - Input Offset $50\mu V$ Current - Supply $27\mu A$ Current - Output / Channel $50mA$ Voltage - Supply, Single/Dual ( $\pm$ ) $2.7\ V \sim 36\ V$ , $\pm 1.35\ V \sim 18\ V$ Operating Temperature $-40^{\circ}C \sim 85^{\circ}C$ Mounting Type Surface Mount  Package / Case $14\text{-SOIC}$ $(0.154^{\circ}, 3.90mm\ Width)$ Supplier Device Package $14\text{-SOIC}$   | Gain Bandwidth Product            | 35kHz   |
| Voltage - Input Offset   | -3db Bandwidth                    | -   |
| Current - Supply 27 $\mu$ A  Current - Output / Channel 50mA  Voltage - Supply, Single/Dual (±) 2.7 V ~ 36 V, ±1.35 V ~ 18 V  Operating Temperature -40°C ~ 85°C  Mounting Type Surface Mount  Package / Case 14-SOIC (0.154", 3.90mm Width)  Supplier Device Package 14-SOIC  | Current - Input Bias              | 4nA   |
| Current - Output / Channel $50mA$ Voltage - Supply, Single/Dual ( $\pm$ ) $2.7 \text{ V} \sim 36 \text{ V}, \pm 1.35 \text{ V} \sim 18 \text{ V}$ Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ Mounting TypeSurface MountPackage / Case $14\text{-SOIC}$ ( $0.154^{\circ}$ , $3.90\text{mm}$ Width)Supplier Device Package $14\text{-SOIC}$   | Voltage - Input Offset            | $50\mu V$   |
| Voltage - Supply, Single/Dual ( $\pm$ ) 2.7 V ~ 36 V, $\pm$ 1.35 V ~ 18 V<br>Operating Temperature -40°C ~ 85°C<br>Mounting Type Surface Mount<br>Package / Case 14-SOIC (0.154", 3.90mm Width)<br>Supplier Device Package 14-SOIC   | Current - Supply                  | 27μΑ  |
| Operating Temperature  -40°C ~ 85°C  Mounting Type  Surface Mount  Package / Case  14-SOIC (0.154", 3.90mm Width)  Supplier Device Package  14-SOIC  | Current - Output / Channel        | 50mA  |
| Mounting Type Surface Mount Package / Case 14-SOIC (0.154", 3.90mm Width) Supplier Device Package 14-SOIC  | Voltage - Supply, Single/Dual (±) | 2.7 V ~ 36 V, ±1.35 V ~ 18 V                                |
| Package / Case 14-SOIC (0.154", 3.90mm Width) Supplier Device Package 14-SOIC  | Operating Temperature             | -40°C ~ 85°C  |
| Supplier Device Package 14-SOIC  | Mounting Type                     | Surface Mount   |
|  | Package / Case                    | 14-SOIC (0.154", 3.90mm Width)                              |
| Papert arrore?   | Supplier Device Package           | 14-SOIC   |
| Report errors:   |                                   | Report errors?  |

#### OPA4251UA/2K5 Guarantees



#### **Quality Guarantees**

We provide 90 days warranty. \*

If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.



#### **Service Guarantees**

We guarantee 100% customer satisfaction.

Our experienced sales team and tech support team back our services to satisfy all our customers.

### OPA4251UA/2K5 Payment Methods



















### OPA4251UA/2K5 Shipping Methods













If you have any question about OPA4251UA/2K5, please do not hesitate to contact us!

Website: https://www.heisener.com E-mail: salesdept@heisener.com